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1: Appl Microbiol Biotechnol. 2002 Jul;59(2-3):205-10. Epub 2002 Apr 04.

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## Influence of threonine exporters on threonine production in *Escherichia coli*.

PubMed Services

Kruse D, Kramer R, Eggeling L, Rieping M, Pfefferle W, Tchieu JH, Chun YJ, Jr Saier MH, Burkovski A.

Degussa., R & D Feed Additives/Biotechnology, P.O. Box 1112, 33788 Halle, Germany.

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Threonine production in *Escherichia coli* threonine producer strains is enhanced by overexpression of the *E. coli* *rhtB* and *rhtC* genes or by heterologous overexpression of the gene encoding the *Corynebacterium glutamicum* threonine excretion carrier, *thrE*. Both *E. coli* genes give rise to a threonine-resistant phenotype when overexpressed, and they decrease the accumulation of radioactive metabolites derived from [(14)C] L-threonine. The evidence presented supports the conclusion that both *RhtB* and *RhtC* catalyze efflux of L-threonine and other structurally related neutral amino acids, but that the specificities of these two carriers differ substantially.

PMID: 12111147 [PubMed - indexed for MEDLINE]

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